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NOTICE OF ALLOWANCE AND FEE(S) DUE

7500

05/06/2004

MATTINGLY, STANGER & MALUR, P.C. 1800 Diagonal Road, Suite 370 Alexandria, VA 22314

EXAMINER
OWENS, DOUGLAS W

PAPER NUMBER

ART UNIT

DATE MAILED: 05/06/2004

APPLICATION NO.	APPLICATION NO. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO. CONFIRMATION NO.		
10/046 446	01/16/2002	Toshio Miyamoto	T&A-110	4041	

TITLE OF INVENTION: SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD OF THAT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	08/06/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

□ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450

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CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

7590

05/06/2004

MATTINGLY, STANGER & MALUR, P.C. 1800 Diagonal Road, Suite 370 Alexandria, VA 22314

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

	I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.
1	(Depositor's name)

		(Signature)
		(Date)
ENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.

FIRST NAMED INVENTOR FILING DATE APPLICATION NO. 4041 T&A-110 Toshio Miyamoto 01/16/2002 10/046,446

TITLE OF INVENTION: SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD OF THAT

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nonprovisional	NO	\$1330		\$300	\$1630	08/06/2004
EXAMINER		ART UNIT		CLASS-SUBCLASS]	
OWENS, DOUGLAS W		2811		257-693000		
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			names of agents Of firm (hav	nting on the patent front page, up to 3 registered patent a R, alternatively, (2) the name ing as a member a registered d the names of up to 2 regist or agents. If no name is liste inted.	of a single attorney or 2 tered patent	

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has.....

PLEASE NOTE: Unless an assignee is identified below been previously submitted to the USPTO or is being sub (A) NAME OF ASSIGNEE	v, no assignee data will appear on the mitted under separate cover. Complet (B) RESIDENCE: (CIT)	ion or time rotting	1101 a sacsarate ter	B
Please check the appropriate assignee category or categorie	s (will not be printed on the patent);	□ individual	☐ corporation or other private group entity	government
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):			
☐ Issue Fee	☐ A check in the ame			
□ Publication Fee	Payment by credit	card. Form PTO-	2038 is attached.	
☐ Advance Order - # of Copies	The Director is he Deposit Account Nu	ereby authorized nber	by charge the required fee(s), or credit any (enclose an extra copy of this	overpayment, to form).
Director for Patents is requested to apply the Issue Fee and (Authorized Signature)	(Date)			
NOTE; The Issue Fee and Publication Fee (if required other than the applicant; a registered attorney or agent interest as shown by the records of the United States Pate	r or the assistice of onici party in			
This collection of information is required by 37 CFR I obtain or retain a benefit by the public which is to file application. Confidentiality is governed by 35 U.S.C. 122 estimated to take 12 minutes to complete, including gath case. Any comments on the USPTO. Time will case. Any comments on the amount of time you rec suggestions for reducing this burden, should be sent to Patent and Trademark Office, U.S. Department of 22313-1450. DO NOT SEND FEES OR COMPLETS SEND TO: Commissioner for Patents, Alexandria, Virgin	311. The information is required to (and by the USPTO to process) an and 37 CFR 1.14. This collection is nering, preparing, and submitting the vary depending upon the individual puire to complete this form and/or the Chief Information Officer, U.S. Commerce, Alexandria, Virginia ED FORMS TO THIS ADDRESS. nia 22313-1450.			
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/046,446	01/16/2002	Toshio Miyamoto	T&A-110	4041
75	90 05/06/2004	EXAMINER		
MATTINGLY, S	TANGER & MALU	OWENS, DOUGLAS W		
1800 Diagonal Roa	d, Suite 370		ART UNIT	PAPER NUMBER
Alexandria, VA 22	314		2811	
			DATE MAILED: 05/06/200	4

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 120 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 120 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

			AU	
	Application No.	Applicant(s)	7	
	10/046,446	MIYAMOTO ET AL.		
Notice of Allowability	Examiner	Art Unit	- " -	
	Douglas W Owens	2811		
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this applied or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due co	l ourse. THIS	
1. X This communication is responsive to the amendment filed	February 5, 2004.			
2. ☑ The allowed claim(s) is/are <u>5-19 and 21-24</u> .			:	
3. \boxtimes The drawings filed on <u>16 January 2002</u> are accepted by th	e Examiner.			
4. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have	e been received.			
2. Certified copies of the priority documents have3. Copies of the certified copies of the priority do			on from the	
International Bureau (PCT Rule 17.2(a)).	cuments have been received in this	Tradonal stage applicant	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	MENT of this application.			
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	nitted. Note the attached EXAMINER es reason(s) why the oath or declara	L'S AMENDMENT or NO ation is deficient.	TICE OF	
6. CORRECTED DRAWINGS (as "replacement sheets") must				
(a) including changes required by the Notice of Draftspers		-948) attached		
1) hereto or 2) to Paper No./Mail Date		Office cation of		
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the drawi the header according to 37 CFR 1.121(ngs in the front (not the b (d).	oack) of	
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	sit of BIOLOGICAL MATERIAL I FOR THE DEPOSIT OF BIOLOGIC	must be submitted. No AL MATERIAL.	ote the	
Attachment(s)	5. Notice of Informal F	Datent Application (DTO	.152)	
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 		• • • • • • • • • • • • • • • • • • • •	102)	
	Paper No./Mail Da	nte		
 Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date)		
4. Examiner's Comment Regarding Requirement for Deposit	8. Examiner's Stateme	ent of Reasons for Allow	/ance	
of Biological Material	9. Other			
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Application/Control Number: 10/046,446

Art Unit: 2811

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Dan Stanger on April 22, 2004.

The application has been amended as follows:

in line 2 of claim 22, delete "one" and insert --a--; and

in line 12 of claim 22, delete "later" and insert -- layer--

Allowable Subject Matter

2. Claims 5 – 19 and 21 – 24 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas W Owens whose telephone number is 571-272-1662. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie C Lee can be reached on 571-272-1732. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Art Unit: 2811

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DWO

EDDIE LEE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800